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1	PATER	NT AND	TRADEMARK OFF	ICE	APPLICANT Mitsuaki OSHIMA et al.	•	7				
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200	Ù	AA	5,311,550	5-10-94	Fouche et al.		_				
		AB	4,630,287	12-16-86	Armstrong						
		AC	4,271,527	6-2-81	Armstrong						
		AD	5,050,188	9-17-91	Dirr				,		
		AE	5,398,073	3-14-95	Wei						
		AF	5,452,015	9-19-95	Hulyalkar						
		AG	5,565,932	10-15-96	Gitta et al.						
		АН	5,481,412	1-2-96	Bannai et al.				· · · · · · · · · · · · · · · · · · ·		
		Al	3,909,721	9-30-75	Bussgang et al.		<u> </u>	_	<u>ا</u>		
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		LA	0365431	4-25-90	EP		-	_			Х.
		AK	0485105	5-13-92	. EP					x	
		AL	92/14343	8-20-92	WO					X	
		АМ	89/08366	9-8-89	wo					×	
202	/	AN	0031193	7-1-81	EP		_	_	-	x	
			отн	ER DOCUMENT(S	Uncluding Author, Title, Date, Per	tinent Page	s, Etc.)				
AO Shinji Matsumoto et al., *200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.									and 5 GHz	Bands*,	
		АР			Coding of Television Images, er 2, 1990, no. 3, pages 25		Compa	itible S	ystem",	Signal Proc	essing
	AQ Mitsuaki Oshima, *Constellation-Code Division Multiplex for Digital HDTV*, IEEE, 1992, pages 1086-1092.										
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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S	10	AA	4,227,152	10-7-80	Godar	rd et al.	_					
		АВ	4,525,846	6-25-85	Breme	er et al.				·		
		AC	4,751,478	6-14-88	Yos	shida						
		AD	4,891,806	1-2-90	Farias	s et al.			Ш			
		AE	4,903,125	2-20-90	Pa	rker						
		AF	4,937,844	6-26-90	к	Kao						
<u></u> ,	<u> </u>	AG	5,164,963	11-17-92	Lawren	nce et al.						
<u>R</u>	<u>.</u>	АН	5,555,275	9-1996	Ost	hima		<u> </u>		-		
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1		AK	0329158	8-23-89	E	<b>E</b> P					x	
		AL	64-5135	1-10-89	J	JP					x	
1	<u> </u>	AM	63-28145	2-5-88	J	JP					x	
0	<b>&amp;</b>	AN	62-133842	6-17-87	J	JP		_		<u> </u>	x	
		,	отн	ER DOCUMENT(S)	) (Including Autho	or, Title, Dete, Per	tinent Pag	es, Etc.)				
بر	35	AO	Tricia Hill et al., COM-31, June				ΣΑΜ", II	EEE Trai	nsactio	on Co	ommunicati	ons, vol.
		AP	Hideki Ishio et a 20.	il., "A Proposa	of a Carrier (	Digital Transmi	ission S	ystem U	Jsing N	Aulti-Leve	el APSK*, p	ages 1-
, _	NS.	DΑ	Shanmugam, "D	Digital and Ana	ılog Communic	cation System	s" 1979	), p. 27	2.			
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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ZP.	/	AA	5,105,442	4-14-92	Wei			_			
		AB	4,048,572	9-13-77	Dogliotti et al.						
$ \bot $		AC	5,282,019	1-25-94	Basile et al.						
		AD	5,311,547	5-10-94	Wei						
, 		AE	5,267,021	11-30-93	Ramchandran et al.	ļ					
	<u> </u>	AF	5,038,219	8-6-91	Yamashita et al.		<u> </u>				
		AG	5,087,975	2-11-92	Citta et al.						
		AH	5,086,340	2-4-92	Citta et al.		<u></u>				
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					FOREIGN PATENT DOCUMENTS						
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	1	AK	0282298	9-14-88	Europe					х	
		AL	0392538	10-17-90	Europe					х	i i
		АМ	0490552	6-17-92	Europe					x	
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			отн	ER DOCUMENT(S	) (Including Author, Title, Date, Pert	tinent Pag	es, Etc.)				
		AO	Khaled Fazel et a 1081-1085	al., Combined	multilevel coding and multire	esolutio	n modul	ation,	February	, 8, 1993, F	Pages
	/	AP			of an RCPC-Coded OFDM-bans Conference "Globecom"						
<sup>8</sup> K	V	AQ	K. M. Uz et al., ( 1992, Pages 28		ltiresolution source coding a	nd modu	lation f	or digi	ital broad	cast of HDT	Γ <b>ν*</b> ,
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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UB	AA	5,142,353	8-25-92	Kageyama et al.						
	AB	5,197,061	3-23-93	Halbert-Lassalle et al.						
	AC	5,291,289	3-1-94	Hulyalkar et al.		•				· .
in	AD	5,166,924	11-24-92	Moose	<u> </u>		1-1			
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20	AJ	0448492A1	9-25-91	Europe	_	<u> </u>		 -		
	AK	0485108A2	5-13-92	Europe						
	AL	0525641A2	2-3-93	Europe						
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2DC	AO	K. M. Uz et al., 69.	Multiresolutio	n Source and Channel Codin	ng for Dig	gital Bro	oadcas	t of HDT	V, 1992, P	ages 61-
	AP		evel Block Coded Modulatio , May-June 1993, Pages 32		Unequa	Error	Protection	on for the R	layleigh	
ar	AQ	William F. Schre	eiber, Spread-S	Spectrum Television Broadca	asting, S	MPTE .	Journa	l, August	1992, Pag	jes 538-
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	АР	Ezio Biglieri et a	al., Introduction	n to Trellis-Coo	ded Modulation v	with A	pplicati	ons, April 6, 19	992, Pages	173-207.
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SI	AA	4,636,876	1-13-87	Sch	wartz	١		-					
	AB	4,855,692	8-8-89	Kennai	d et al.								
	AC	4,873,701	10-10-89	Tre	tter								
	AD	4,958,360	9-18-90	s	ari								
V	AE	5,115,453	5-19-92	Calderba	nk et al.								
20	AF	5,168,509	12-1-92	Nakamı	ıra et al.	4							
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30	AO	Kazuhiko Nitado International Co	ri, Synthesis o	of Multichanne	l Orthogonal V	'SB Sig	nals by (	Quad e 1, P	rature Mi Pages 3-2	ethod, 1976 25 - 3-29.			
	АР	Thomas M. Cov	er, Broadcast	Channels, IEEI	Transactions	on Info	ormation	Theo	ory, Janu	ary 1972, P	ages 2-14		
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/DH/	AM	62-502932	11-19-87		Japan				abstract	
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy this form with next communication to applicant.

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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		AB	5,023,889	6-11-91	Divsalar et al.			
		AC	5,063,452	11-5-91	Higurashi			
		AD	5,124,852	6-23-92	Suwa et al.			
		AE	5,136,380	8-4-92	Cho			
		AF	5,146,335	9-8-92	Kim et al.			
		AG	5,148,422	9-15-92	Sako et al.			
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Sheet 1 of 1			INFORMA	TION DISCLOSURE STATEMENT	<u> </u>			
FORM PTO 1449 (11	•	i i	<b>-</b> ••	ATTY DOCKET NO. 2000_1390		AL NO. 77,420		-
PAT	ENT AN	TMENT OF COMMERCI D TRADEMARK OFFICI ICES CITED BY APPLICAN	Ē	APPLICANT Mitsuaki OSHIMA et al.			<del></del>	
(	(Use seve	ral sheets if necessary) to PTO: December 16, 2		FILING DATE		GROUP		
Date St	ibinilleo	to PTO. December 10, 2		October 5, 2000	<del></del>	2 <del>634</del> -26	o( )	<del>-</del>
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	S. PATENT DOCUMENTS NAME	CLASS	SUBCLASS	FILING DAT	E IF ATE
OIPA	AA	4,597,090	6-24-86	Forney, Jr.				
DEC 16 MAG	AB	4,077,021	2-28-78	Csajka et al.				
(t)	AC	2005/0084750	4-21-05	Wang et al.				, .
PAOEMARY	AD	2005/0058633	3-17-05	Epstein et al.			~	
DH-	AE	2005/0922922						
			FORE	EIGN PATENT DOCUMENTS				
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATI YES	ION NO
DH	AF	2627574	7-21-04	CN				
	AG	1529838	5-11-05	EP			abstract	
	АН	1499725	5-26-04	CN			only abstract	
	Al	2004-159207	6-3-04	JP			corresponds to AH	
	AJ	1528854	5-11-05	EP		_	only abstract	
	AK	52118	12-16-02	UA		1-	only abstract	
DH	AL	1569334	1-26-05	CN				×
		OTHER	DOCUMENT(S) (II	ncluding Author, Title, Date, Pertine	eni Pages, Etc.)	···		
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy this form with next communication to applicant.

Sheet 1 of 1			INFORMA	ATION DISCLOSURE STATEMENT		6	486
FORM PTO 1449 (modified)				ATTY DOCKET NO. 2000_1390	SERIAL (	NO. 7,420	2005
U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S)				APPLICANT Mitsuaki OSHIMA et al.	APPLICANT Mitsuaki OSHIMA et al.		
(	(Use sever	eral sheets if necessary) ad to PTO: March 22, 200		FILING DATE October 5, 2000	FILING DATE GROUP		
U.S. PATENT DOCUMENTS							
'EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DH	AA	4,267,592	5-12-81	Craiglow			
	AB	4,601,045	7-15-86	Lubarsky			
	AC	4,912,706	3-27-90	Eisenberg et al.			
	AD	4,914,655	4-3-90	Johannes et al.			
DH	AE	5,018,198	5-21-91	Takahashi			
	AF			·			
	AG						
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	Al						
		<u> </u>	FORE	EIGN PATENT DOCUMENTS	<del></del>	<del></del>	
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
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OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
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EXAMINER DATE CONSIDERED 5/1/06							